

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 July 2005 (28.07.2005)

PCT

(10) International Publication Number
WO 2005/069523 A1

(51) International Patent Classification⁷: **H04J 13/02**,
13/04, 13/00

(21) International Application Number:
PCT/SG2004/000021

(22) International Filing Date: 20 January 2004 (20.01.2004)

(25) Filing Language: English

(26) Publication Language: English

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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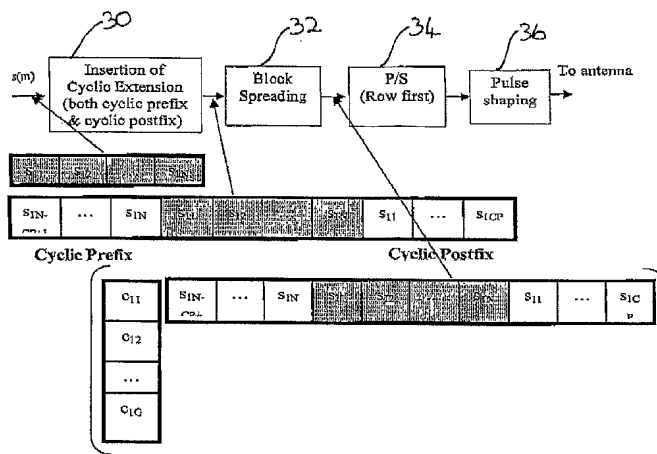
— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

[Continued on next page]

(54) Title: A SYSTEM, A TRANSCEIVER STRUCTURE FOR USE THEREIN AND A METHOD OF PROCESSING SIGNALS IN SUCH A SYSTEM



(57) Abstract: A system such as a code division multiple access (CDMA) system or an ultrawide band (UWB) system comprises a transmitter and a receiver. The transmitter includes a sequence extender for extending the incoming signal and a spreader for spreading the extended signal, the spreader input being coupled to the sequence extender output. A pulse shaper is coupled to the spreader output to provide a transmitter output signal. The transmitter output signal which has an associated chip rate is received by the receiver and is passed to a filter to select a number of input signals from the received signals. The signal is the passed to a sequence extension remover for removing a number of chips from the signal. The received signal is despread to a symbol rate which is less than the chip rate at which the received signal was spread prior to being received by the receiver. A frequency domain equalizer is provided to form a frequency equalized signal from the modified signal.